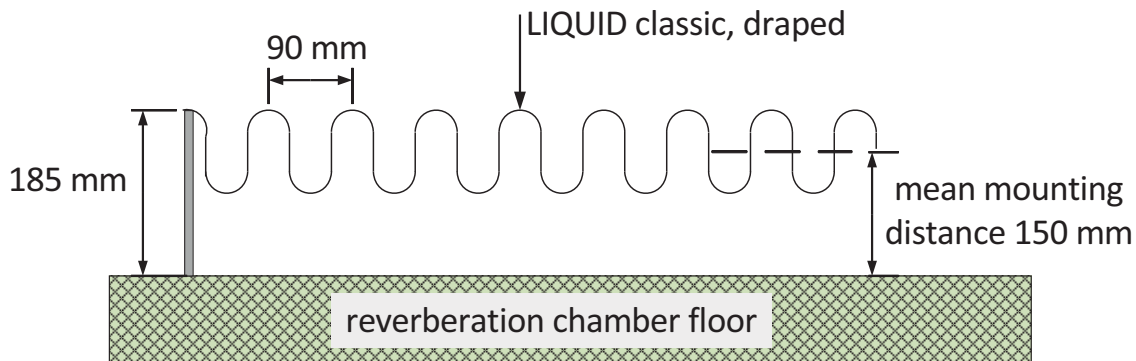


# Sound Absorption Coefficient (Reverberation room) Page 2

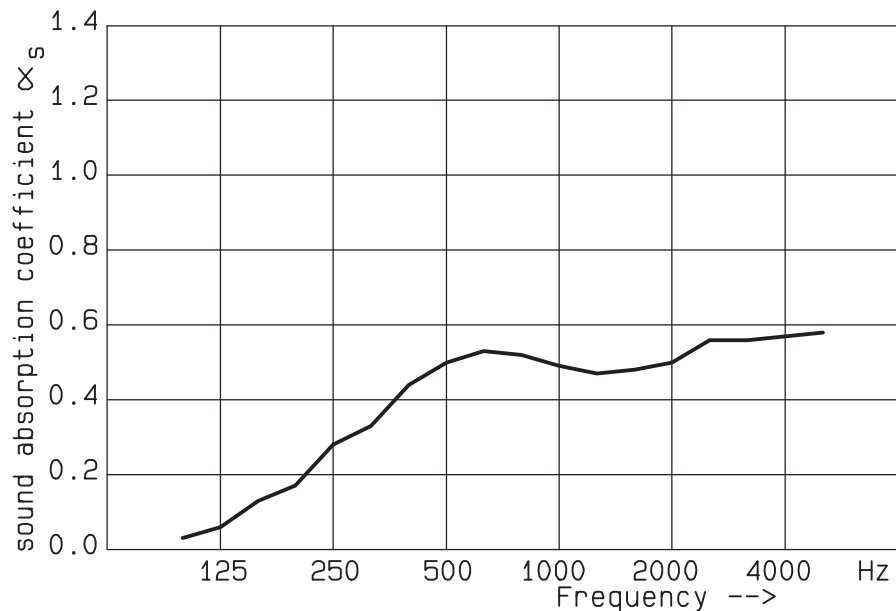
Object: Annette Douglas Textiles ACOUSTICS ®, LIQUID classic,  
100% fullness, mean mounting distance 150 mm

Test: Reverberation room EMPA Dübendorf      Volume V: 215 m<sup>3</sup>      Measurement no. 8  
Temperature: 21 °C    Relative humidity: 57 %    Area S: 12,0 m<sup>2</sup>      Date: 04.03.2011

Photograph  
and schematic vertical  
cut of the setup in the  
reverberation chamber



Frequency [Hz]	$\alpha_s$
100	0.03
125	0.06
160	0.13
200	0.17
250	0.28
315	0.33
400	0.44
500	0.50
630	0.53
800	0.52
1000	0.49
1250	0.47
1600	0.48
2000	0.50
2500	0.56
3150	0.56
4000	0.57
5000	0.58



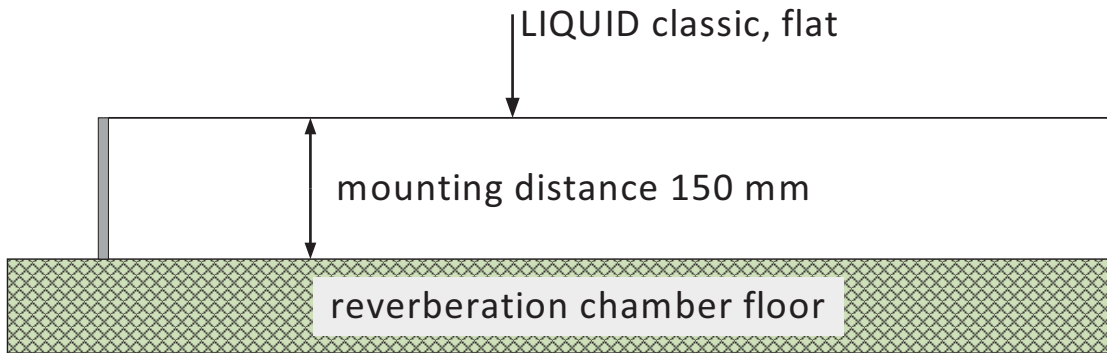
Averages of $\alpha_s$ :			
100 - 315 Hz: 0.17	400 - 1250 Hz: 0.49	1600 - 5000 Hz: 0.54	
500 - 2000 Hz: 0.50	125 - 4000 Hz: 0.41	100 - 5000 Hz: 0.40	
Evaluation acc. EN ISO 11'654 (1997):			
$\alpha_p$ : 250Hz: 0.25	500Hz: 0.50	1000Hz: 0.50	2000Hz: 0.50    4000Hz: 0.55 $\alpha_w$ : 0.50

Methode of measurement: ISO 354      MLS-based measurement; 1/3 octave filters; T20

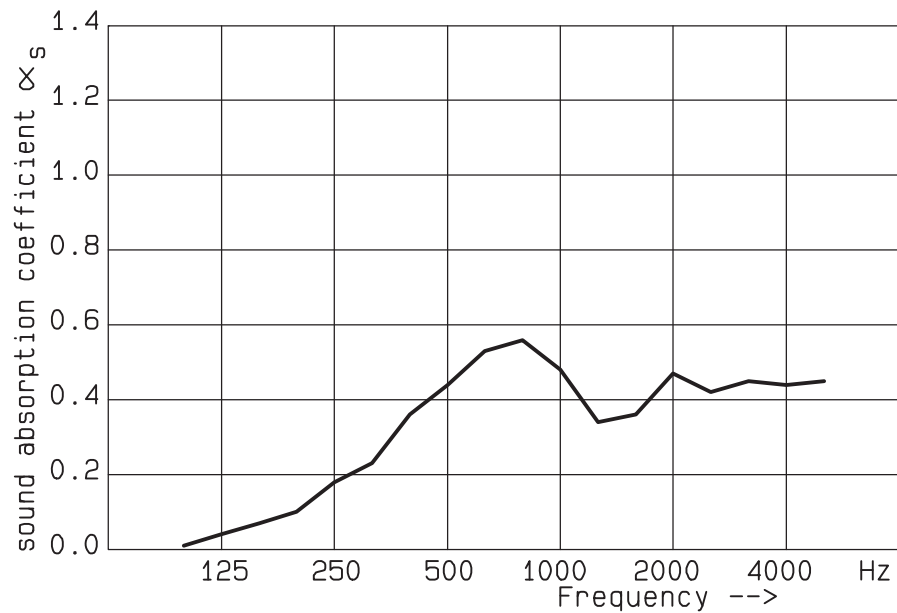
Object: Annette Douglas Textiles ACOUSTICS ®, LIQUID classic,  
0% fullness, mounting distance 150 mm

Test: Reverberation room EMPA Dübendorf      Volume V: 215 m<sup>3</sup>      Measurement no. 2  
Temperature: 21 °C    Relative humidity: 60 %    Area S: 12,0 m<sup>2</sup>      Date: 28.02.2011

Photograph  
and schematic vertical  
cut of the setup in the  
reverberation chamber



Frequency [Hz]	$\alpha_s$
100	0.01
125	0.04
160	0.07
200	0.10
250	0.18
315	0.23
400	0.36
500	0.44
630	0.53
800	0.56
1000	0.48
1250	0.34
1600	0.36
2000	0.47
2500	0.42
3150	0.45
4000	0.44
5000	0.45



Averages of $\alpha_s$ :			
100 - 315 Hz: 0.10	400 - 1250 Hz: 0.45	1600 - 5000 Hz: 0.43	
500 - 2000 Hz: 0.45	125 - 4000 Hz: 0.34	100 - 5000 Hz: 0.33	
Evaluation acc. EN ISO 11'654 (1997):			
$\alpha_p$ : 250Hz: 0.15	500Hz: 0.45	1000Hz: 0.45	2000Hz: 0.40    4000Hz: 0.45 $\alpha_w$ : 0.40

Methode of measurement: ISO 354      MLS-based measurement; 1/3 octave filters; T20